St. Andrews Scots Sr. Sec. School

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Session: 2025 - 2026

Worksheet

Class: VIII	**Subject: Mathematics**	**Topic:Algebraic Expresions and Identities**	**Worksheet-9**

Q1;Which of the following is a binomial expression

a) X + Y b) X + Y + Z c) $X^2 + Y^2 + Z^2$ d) $X^3 + Y^3 + Z^3$

Q2; What is the value of the expression 2a + 3b when a=1 and b=2

a) 5 b) 8 c) 6 d) 7

Q3; Which of the following is a constant term in the expression 3x + 7

a) 3 b) x c) 7 d)3x

Q4;Which identity is used in the expansion of $(a+b)^2$

a)$(a+b)^2 = a+b$ b)$a^2 + b^2$ c) $a^2 - 2ab + b^2$ d) $a^2 + 2ab + b^2$

Q5;The expression $x^2 + 6x + 9$ is a perfect square trinomial of the form

a) $(x+3)^2$ b) $(x+6)^2$ c) $(x-3)^2$ d)$(x-6)^2$

Q6;The value of 3(a+b) – 4 (a – b) when a =2 and b=1 is

a) 6 b) 4 c) 2 d) 8

Q7; What is the coefficient of x in the expression 5x + 3y

a) 3 b) 5 c) 8 d) 0

Q8; Expand (x+ 4) (x – 2)

a)x^2 +2x - 8 b)x^2-2x +8 c)x^2 + 2x - 8 d)x^2 -2x -8

Q9;What Is the value of x if 3x + 7 = 19

a)3 b) 5 c)4 d)6

Q10;Which of the following is an identity

a)$(a+b)^2 = a^2 + b^2$ b) $(a+b) = a^2 + 2ab + b^2$ c)$(a-b)^2 = a^2 - b^2$ d)none of above